

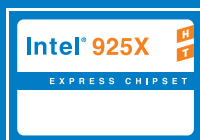


**Are You Looking for
Incredible Performance
on a Desktop PC?**





The new Intel® 925X Express Chipset combined with the powerful new Intel® Pentium® 4 Processor Extreme Edition supporting Hyper-Threading Technology¹ delivers outstanding levels of desktop PC performance—for power users looking to enhance their digital content creation, editing and entertainment experience.



Experience a new level of desktop PC performance and capabilities with the Intel® 925X Express Chipset.

The Intel® 925X Express Chipset combined with the Intel® Pentium® 4 Processor Extreme Edition supporting Hyper-Threading Technology¹ delivers the high-performance and latest features on a desktop PC, making it ideal for power user enthusiasts.

We live in an increasingly digital world. If you are a PC “power user,” you’re probably looking for the latest and high-performance PC platform to enhance your digital entertainment experience. New technologies are enabling seamless integration of media creations, editing, gaming, and computing. Whether you are competing in an immersive, multiplayer game online, or creating digital media content and sharing it wirelessly, the performance and features supported by your PC directly affect the quality of your experience.

The Need for Performance

Today’s high-resolution digital graphics and high-quality digital audio demand more computing power from your PC for professional-quality editing, recording, storing, and sharing. Keeping pace with these more demanding usage models requires increased speed for everything: faster CPU for computation, faster system memory for temporary storage, and faster system buses to move the data around. You’ll also need faster and safer file storage for saving your digital content. In addition, the emergence of new, connected consumer electronics (CE) devices that work with your PC means you can now wirelessly connect and share digital files and PC resources with enabled devices at home or in the office. This is why Intel developed a revolutionary new platform with the Intel® 925X Express chipset.



Performance and Features for the Most Advanced Users

- **Designed for the new Intel® Pentium® 4 Processor with HT Technology¹ Extreme Edition.** The Intel 925X Express chipset is optimized for the new Intel Pentium 4 Processor with HT Technology¹ Extreme Edition. Together, they deliver amazing new levels of desktop PC features and performance for your most demanding needs.
- **Fast memory and graphics performance.** The Intel 925X Express chipset delivers incredibly fast access to system memory for graphics, CPU, and other components and applications designed for desktop PC and entry-level workstations. This improves overall system performance and responsiveness, and gives applications such as games, high-definition video playback, 3-D modeling and other memory-intensive applications the extra boost they need for optimal performance.
- **High-performance PCI Express* bus.** This new PC bus architecture vastly improves system bandwidth to deliver top-notch performance and flexibility for the next generation of graphics, video, LAN networks, and other high-speed PCI Express devices.
- **Dual-Channel 533-MHz DDR2 Memory.** The Intel 925X Express chipset supports the next-generation PC memory architecture called DDR2. With its dual-channel capability, the 925X Express chipset delivers up to 8.5 GB/s



of memory bandwidth, greatly improving overall system performance for activities such as advanced gaming, high-resolution video playback, 3-D modeling, and more.

Fast and Secure File Storage

- **Intel® Matrix Storage Technology.** The Intel 925X Express chipset supports the new Intel® Matrix Storage Technology. This technology boosts the performance of data storage and retrieval, while also enabling greater data protection. For applications such as photo or video editing, where large amounts of data are stored on the system hard drive, the integrated Intel RAID controller, part of Intel® Matrix Storage Technology, delivers the performance of RAID 0 and/or safer storage of RAID 1 at a fraction of the usual cost and configuration effort for these capabilities. For advanced users with transportable data via hard drive, the new Intel® Matrix Storage Technology offers hard drive hot-plug capability. This feature will also configure the newly added hard drive to a user predefined RAID 0 and/or RAID 1 configuration without having to reboot the computer.² Whether you transition critical business data or your most cherished photos or movies to a digital media format, the integrated Intel® Matrix Storage Technology is a must-have.
- **Next-generation Serial ATA Storage Interface**
The Intel 925X Express chipset offers an improved Serial ATA or SATA interface architecture called SATA AHCI. With out-of-order queuing and execution capability, the



new interface vastly improves the performance of application reads and writes to and from the system hard drive, especially in multitasking environments, for faster system and application responsiveness.

Wireless Connectivity Simplified

- **Intel® Wireless Connect Technology³ is an optional feature available in limited quantities only.** The Intel 925X Express chipset can be configured with Intel® Wireless Connect Technology to enhance distribution of wireless content and resources in the home. The step-by-step software wizard simplifies the home network setup allowing you to connect to an existing wireless network or create a new network with your PC acting as the main wireless hub, or access point. Together with other wireless-enabled devices you can now manage, view, and listen to digital content remotely anywhere in your home.⁴

Lifelike Graphics and High Resolution Video

- **PCI Express* Graphics.** The Intel 925X Express chipset is designed for tomorrow's graphics requirements, and supports the industry's newest graphics cards based on the PCI Express x16 graphics port. This allows you to play the most advanced desktop PC games and/or watch high-resolution HD video on your PC monitor or HDTV, or (with additional equipment) wirelessly access and watch your stored media files on your TV. Intel 925X

Express chipset-based systems with new PCI Express x16 graphics offers significant improvement over existing discrete graphics solutions, for advanced gaming and high-resolution video playback. The Intel 925X Express chipset with the Intel Pentium 4 Processor with HT Technology¹ Extreme Edition is the platform of choice for discriminating power users, hard-core gamers, and budding movies producers alike.

Enhanced Digital Audio Playback

- **Intel® High-Definition Audio.** With the introduction of the Intel 925X Express chipsets, Intel brings you enhanced, multi-channel digital audio, so that your PC can provide the same exciting level and quality of digital sound as the home theater receiver in your living room.

Intel High-Definition (HD) Audio delivers superb quality, with 192-kHz, 24-bit, 8-channel audio and support for all new audio formats, including Dolby® Digital 5.1/6.1/7.1 which allows for THX® certification. Another supported format is DTS® ES/Discrete 6.1. With a scalable architecture, it's possible to easily upgrade Intel HD Audio to support future audio formats, for added investment protection.

- **Multi-streaming support.** Intel HD Audio also supports multiple audio streams, which allows you to enjoy several audio activities at once—for example, listening to the multi-channel digital sound from your computer, while simultaneously chatting with your opponents on your headset during an online gaming session.



Intel® 925X Express Chipset Features At a Glance

PCI Express*	Delivers up to a 4x increase in graphics and 2x I/O bandwidth for smooth multimedia performance.
Intel® High-Definition Audio	Enable premium home theater experience through the PC, with support for all major audio formats.
Intel® Matrix Storage Technology	Boost your storage performance while protecting your valuable digital memories.
Intel® Wireless Connect Technology³	Provides a flexible wireless solution for the desktop platform, allowing easier sharing of digital content in the home.
Dual-Channel DDR2 533 MHz Memory	Dual channel DDR2 533 memory delivers up to 8.5 GB/s for more responsive system performance.

United States and Canada
Intel Corporation
Robert Noyce Bldg.
2200 Mission College Blvd.
P.O. Box 58119
Santa Clara, CA 95052-8119
USA

Europe
Intel Corporation (UK) Ltd.
Pipers Way
Swindon
Wiltshire SN3 1RJ
UK

Asia-Pacific
Intel Semiconductor Ltd.
32/F Two Pacific Place
88 Queensway, Central
Hong Kong

Japan
Intel Japan (Tsukuba HQ)
5-6
Tokodai Tsukuba-shi
300-2635 Ibaraki-ken
Japan

South America
Intel Semicondutores do Brasil Ltda
Av. Dr. Chucri Zaidan, 940-10º andar
04583 904 São Paulo, SP
Brazil

¹ Look for systems with the Intel® Pentium® 4 Processor with HT Technology logo and also including an Intel® 925X or 915 Express Chipset (see the product spec sheet or ask your salesperson). Performance and functionality will vary depending on (i) the specific hardware and software you use and (ii) the feature enabling/system configuration by your system vendor. See <http://www.intel.com/info/hyperthreading> for information on HT Technology or consult your system vendor for more information.

² System must be configured as "RAID Ready" to take advantage of Intel® Matrix Storage Technology, which includes enabling the RAID controller in the BIOS and installing the Intel® Application Accelerator software driver.

³ Intel® Wireless Connect Technology requires an Intel® 9xx Express chipset with Intel® 82801FW or RW (ICH6W or RW) I/O Controller Hub and a separate Intel® PRO/Wireless 2225BG Network Connection solution. Availability may be limited. Consult with your system vendor for more information, including whether Intel Wireless Connect Technology has been enabled on your system.

⁴ Sharing audio, video, and/or digital photos via wireless connection requires a third-party wireless Digital Media Adapter and software installed on the host PC. See http://www.intel.com/personal/do_more/digital_home/ for more information.

The Intel® Pentium® 4 processor and Intel® 925X Express chipset may contain design defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request. Intel Corporation assumes no responsibility for the use of any circuitry other than circuitry embodied in an Intel® product. Information contained herein supersedes previously published specifications on these devices from Intel.

Intel, Pentium, and the Intel logo are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

* Other names and brands may be claimed as the property of others.

Copyright © 2004 Intel Corporation

Printed in USA/0604/5K/MS/DN

Order Number: 300543-002

